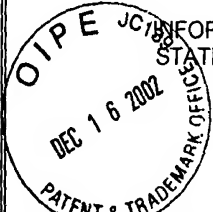


FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 1038-1226 MIS:ac	SERIAL NO. 10/088,569
	APPLICANT Robert C. Brunham		
	FILING DATE August 13, 2002	GROUP 1616	

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U.S. PATENT DOCUMENTS

*INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCL	FILING DATE
	5,589,466	Dec. 31, 1998	Felgner et al	514	44	

FOREIGN PATENT DOCUMENTS

DOCUMENT NO.	DATE	COUNTRY	CLAS S	SUBC L.	TRANSLATION	
0192033	Aug. 27, 1986	Europe			YES	NO
WO 98/02546 A	Jan. 22, 1998	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1. Donnelly et al, Protective efficacy of intramuscular immunization with naked DNA. Vol. 772 40-46 (1995)
	2. D. M. Pardoll and A. M. Beckerieg, Exposing the immunology of naked DNA vaccines. Vol. 3, 165-169 (1995)
	3. W.M. McDonnell and F. K. Askari, Molecular Medicine. DNA vaccines. Vol. 334, 42-45 (1996)
	4. J. B. Ulmer et al., Heterologous protection against influenza by injection of DNA encoding a viral protein. Vol. 259, 1745-1749 (1993)
	5. B. Wang et al., Gene inoculation generates immune responses against human immunodeficiency virus type 1. Vol. 90, 4156-4160 (1993)
	6. G. J. M. Cox, et al., Bovine Herpesvirus 1: Immune responses in mice and cattle injected with plasmid DNA. Vol. 67, 5664-5667(1993)
	7. E. Raz et al., Intradermal gene immunization: the possible role of DNA uptake in the induction of cellular immunity to viruses. Vol. 91, 9519-9523 (1994).
	8. Z. Q. Xiang et al., Vaccination with a plasmid vector carrying the rabies virus glycoprotein gene induces protective immunity against rabies virus. 199, 132-140 (1994)



9.	J.J. Donnelly et al., Protection against papillomavirus with a polynucleotide vaccine. Vol. 713, 314-320 (1996)
10.	D. L. Montgomery et al., Heterologous and homologous protection against influenza A by DNA vaccination: Optimization of DNA vectors. Vol.12, 777-783 (1993)
11.	J.J. Donnelly et al., Preclinical efficacy of a prototype DNA vaccine: Enhanced protection against antigenic drift in influenza virus. Vol. 1, 583-587 (1995).
12.	G. H. Rhodes et al., Characterization of humoral immunity after DNA injection. Vol. 82, 229-236 (1994).
13.	H. L. Davis, M. L. Michel, R. G. Whalen, DNA-based immunization induces continuous secretion of hepatitis B surface antigen and high levels of circulating antibody. Vol.2, 1847-1851 (1993)
14.	J. B. Ulmer, Protective immunity by intramuscular injection of low doses of influenza virus DNA vaccines. Vol. 12, 1541-1544 (1994).
15.	Z. Xiang and H. C. J. Ertl, Manipulation of the immune response to a plasmid-encoded viral antigen by coinoculation with plasmids expressing cytokines. Vol. 2, 129-135 (1995)
16.	E. F. Fynan et al, DNA vaccines: Protective immunization by parenteral, mucosal, and gene-gun inoculations. Vol. 90, pages. 11478-11482 (1993)
17.	E. Manickan, et al., Genetic immunization against herpes simplex virus. Vol. 155, 259-265 (1995)
18.	M. Sedegah et al, Protection against malaria by immunization with plasmid DNA encoding circumsporozoite protein. Vol. 91, pp. 9866-9870 (1994)
19.	M.A. Barry, et al., Protection against mycoplasma infection using expression-library immunization. Vol. 377, 632-635 (1995)
20.	D. Xu and F. Y. Liew, Genetic vaccination against leishmaniasis. Vol. 12, 1534-1536 (1994)
21.	D. B. Lowrie, et al., Towards a DNA vaccine against tuberculosis. Vol. 12, 1537-1540 (1994)
22.	J. W. Moulder, et al., Interaction of chlamydiae and host cells in vitro. Vol. 55, 143-190 (1991)
23.	J. Schachter, The intracellular life of chlamydia. Vol. 138, 109-139 (1988)
24.	S. D. Hillis and J. N. Wasserheit, Screening for chlamydia-a key to the prevention of pelvic inflammatory disease. Vol. 334, 1399-1401 (1996)
25.	R. C. Brunham and R. W. Peeling, Chlamydia trachomatis antigens: Role in immunity and pathogenesis. Vol. 3, 218-233 (1994).
26.	R. P. Morrison, D.S. Manning, H. D. Caldwell, Immunology of chlamydial trachomatis infections. 1992, pp. 57-84
27.	J. T. Grayston and S-P. Wang, The potential for vaccine against infection of the genital tract with chlamydia trachomatis. Vol. 5, 73-77 (1978)
28.	J.T. Grayston and S-P Wang, New knowledge of chlamydia and the diseases they cause. Vol. 132, 87-105 (1975)
29.	H. R. Taylor, et al. Oral immunization with chlamydia major outer membrane protein (MOMP) Vol. 29, 1847-1853 (1988)
30.	B.E. Batteiger, et al., Partial protection against genital reinfection by immunization of guinea pigs with isolated outer-membrane proteins of the chlamydial agent of guinea-pig inclusion conjunctivitis. Vol. 139, pp. 2965-2972 (1993)
31.	M. Campos et al., A chlamydial major outer membrane protein extract as a trachoma vaccine candidate. Vol. 36, 1477-1491 (1995)
32.	H. Su, M. Parnell, et al., Protective efficacy of parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of Chlamydia trachomatis genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection. Vol. 13, 1023-1032 (1995)
33.	T.-W. Tan, Protection of sheep against chlamydia psittaci infection with a subcellular vaccine containing the major outer membrane protein. Vol. 58, 3101-3108 (1990)



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DEC 17 2002

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3

34. M. Tuffrey, et al., Heterotypic protection of mice against chlamydial salpingitis and colonization of the lower genital tract with a human serovar F isolate of Chlamydia trachomatis by prior immunization with recombinant serovar L1 major outer-membrane protein. 138, 1707-1715 (1992)
35. Y. - X. Zhang, J. G. Fox, Y. Ho., Comparison of the major Outer-Membrane protein (MOMP) gene of mouse pneumonitis (MoPn) and hamster SFPD strains of chlamydia trachomatis with other Chlamydia strains. 10(6), pages: 1327-1342 (1993)
36. R. P. Morrison, et al., Gene knockout mice establish a primary protective role for major histocompatibility complex class II-Restricted responses in chlamydia trachomatis genital tract infection. Vol. 63, 4661-4668 (1995)
37. H. Su and H. D. Caldwell, CD4 ⁺ T cell play a significant role in adoptive immunity to chlamydia trachomatis infection of the mouse genital tract. Vol. 63, 3302-3308 (1995)
38. J. U. Igietseme et al., Resolution of murine chlamydial genital infection by the adoptive transfer of Biovar-Specific, TH1 Lymphocyte Clone. 5, 317-324 (1993)
39. J. U. Igietseme, et al., Susceptibility to reinfection after a primary chlamydia genital infection is associated with a decrease of antigen-specific T cells in the genital tract. Vol. 59, 1346-1351 (1991)
40. D. M. Williams, et al., Cellular immunity to the mouse pneumonitis agent. Vol. 149, 630-639 (1984)
41. G. Tipples and G. McClarty, Cloning and expression of the chlamydia trachomatis gene for CTP synthetase. Vol. 270, 7908-7914 (1995).
42. X. Yang, K. et al., Genetically determined differences in IL-10 and IFN- γ response correlate with clearance of chlamydia trachomatis mouse pneumonitis infection. Vol. 156, 4338-4344 (1996)
43. Tang et al., Genetic immunization is a simple method for eliciting an immune response. 1992, Vol. 356, pp. 152-154
44. Davis et al., Direct gene transfer in skeletal muscle: plasmid DNA-based immunization against the hepatitis B virus surface antigen. 1994, Vol. 12: 1503-1509.
45. Holzman L.B. et al., Identification, molecular cloning, and characterization of a leucine zipper bearing kinase. 1994. Pages. 30808-30817. XP-002120730
46. Stephens, R.S. et al., Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis. Vol. 282 (1998) pages. 759-759 XP-002104802
47. Green et al, "Liposomal Vaccines", Adv. Exp. Med. Biol. 383:83-92
48. Baxby et al, "Potential use of nonreplicating vectors as recombinant vaccines", Vaccine, 10(1): 8-9
49. Anderson et al, "Immune response in mice following immunization with DNA encoding fragment C of tetanus toxin, Inf. Immun. 64(8): 3168-3173
50. Kaul et al, "Expression of the Chlamydia trachomatis major outer membrane protein-encoding gene in Escherichia coli: role of the 3' end in mRNA stability," Gene 87(1):97-104
51. Douglas et al, "Mutagenesis of the P2 promoter of the major outer membrane protein gene of Chlamydia trachomatis", J. Bacteriol., 178(19):5573-5578
52. Dascher et al, "Expression and translocation of the chlamydial major outer membrane protein in Escherichia coli", Microbial Pathogenesis, 15: 455-467
53. M.A. LIU, M.R. Hilleman, R.Kurth, Overview of DNA Vaccines Ann. N.Y. Acad. Sci. 772 (1995) pages 15-20
EXAMINER:
DATE CONSIDERED

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